



# NC Climate Fellows

Using Technology to Promote Climate Literacy

North Carolina Botanical Garden  
Chapel Hill, NC  
June 19-21, 2012

## AGENDA

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### TUESDAY, June 19

**8:00 a.m. Registration**

**8:30 Welcome & Introductions**

**9:15 Group Concept Mapping Exercise**

*Dana Haine, UNC Institute for the Environment*

**10:15 Break**

**10:30 Recent Climate Variability and Extremes:  
Is Global Warming Responsible?**

*Chip Konrad, Southeast Regional Climate Center at UNC*

**Noon Lunch**

***iPad Exploration: Climate Change Resources (optional)***

*Linda Schmalbeck, NC Climate Fellows Teacher Consultant*

**1:00 Hands-on Exploration: Earth's Energy Budget**

*Linda Schmalbeck & DeeDee Whitaker, NC Climate Fellows Teacher Consultants*

**2:00 Introduction to Remote Sensing**

*DeeDee Whitaker*

**2:30 Aerosol Impact on Climate**

*Uma Shankar, Center for Environmental Modeling for Policy Development, UNC Institute for the Environment*

**3:30 Break**



- 3:45**      **NC CLIMATE Fellows Lesson Plan Development**  
*Sarah Yelton, UNC Institute for the Environment & DeeDee Whitaker*
- 4:30**      **Climate Change - A Human Health Perspective**  
*Bono Sen, National Institute of Environmental Health Sciences (NIEHS)*
- 5:00**      **Break & Hotel Check In**
- 6:00**      **Dinner – Spanky’s (optional)**
- 7:30**      **Alliance for Climate Education Assembly (optional)**  
*Johanna DeGraffenreid, ACE*

## WEDNESDAY, June 20

- 8:15**      **NetLogo Climate Change Model**  
*Dana Haine*
- 8:45**      **Duke Forest Tours:  
CO<sub>2</sub> and Global Warming Research  
Plots**
- 12:00 p.m.** **Lunch**
- 1:00**      **Overview of NASA Resources for the  
Study of Climate Change**  
*Judy Walker, North Carolina NASA Educator Resource Center, UNC Charlotte*
- 1:45**      **Introduction to Concurrent Sessions**
- 2:00**      **Concurrent Sessions I**  
GRACE Resource DVD  
Climate and Health Analysis for Global Education Viewer  
NASA’s Earth Observatory and TRMM Satellite Resources for Investigating Climate  
Introduction to MODIS
- 2:30**      **Break**
- 2:45**      **Concurrent Sessions II**  
GRACE Resource DVD  
Climate and Health Analysis for Global Education Viewer  
NASA’s Earth Observatory and TRMM Satellite Resources for Investigating Climate
- 3:15**      **Lesson Development: Exploring NASA Resources**  
*DeeDee Whitaker & Judy Walker*
- 4:00**      **Discussion**
- 4:15**      **Break**
- 4:30**      **North Carolina Botanical Garden –  
Climate Change Initiatives**  
*Peter White, North Carolina Botanical Garden*



- 5:00**      **Tour of the NCBG Education Center**  
*Peter White*
- 5:45**      **Dinner on the Deck/Explore the Gardens (optional)**
- 6:45**      **Climate Change Garden/Project Budburst (optional)**  
*Grant Parkins, North Carolina Botanical Garden*  
*DeeDee Whitaker & Linda Schmalbeck*  
*Barbara Gamblin, 2011 NC Climate Fellow*

## THURSDAY, June 21

- 8:15 a.m.**    **Cryosphere Lab Activities**  
*Dana Haine*
- 9:15**        **Climate Change Effects on the Cryosphere**  
*Jose Rial and Mike Willis, UNC Department of Geology*
- 10:30**       **Break**
- 10:45**       **Ecological Responses to Climate Change: Seasonal Shifts and the Life Cycles of Organisms**  
*Joel Kingsolver, UNC Department of Biology*
- 12:00 p.m.**   **Lunch**
- 1:00**        **The Impact of Climate Change on Marine Ecosystems**  
*John Bruno, UNC Department of Biology*
- 2:00**        **Group Concept Mapping Exercise and Debrief**  
*Dana Haine*
- 2:45**        **Program Evaluation with Break**
- 3:00**        **Lesson Plan Development**  
*Sarah Yelton & DeeDee Whitaker*
- 3:45**        **Evaluations**
- 4:00**        **Wrap-Up and Announcements**
- 4:15PM**     **Depart**

